

DMX CHANNELS

Mode/Channel			Function	Values	Description
BA	ST	EX			
1	1	1	Pan	0-255	Pan movement
	2	2	Pan-fine	0-255	Fine control of pan movement
2	3	3	Tilt	0-255	Tilt
	4	4	Tilt-fine	0-255	Fine control of Tilt movement
3	5	5	Pan/Tilt Speed	0	Normal Tracking
				1-255	Fast to Slow Movement Speed
4	6	6	Strobe	0-3	Shutter Open
				4-103	Linear Strobe from Slow to Fast
				104-107	Shutter Open
				108-207	Pulse strobe from slow to fast
				208-212	Random Strobe Slow
				213-225	Random Strobe Medium
				226-238	Random Strobe Fast
				239-255	Shutter Open
5	7	7	Dimmer	0-255	Dimmer 0-100%
		8	Dim fine	0-255	Dimmer fine 0-100%
	8	9	Dimmer curves modes		Square law
				Inv Square law	
				S-curve	
				Linear	
		10	Dimmer speed	0-255	Smooth-fast
6	9	11	Cyan	0-255	Cyan
		12	Cyan fine	0-255	Cyan fine adjustment
7	10	13	Magenta	0-255	Magenta
		14	Magenta fine	0-255	Magenta fine adjustment
8	11	15	Yellow	0-255	Yellow
		16	Yellow fine	0-255	Yellow fine adjustment
9	12	17	CMY macro	0-15	No function
				16-127	Fixed color presets
				128-255	RGB cycle slow-fast
10	13	18	CTO	0-255	CTO
		19	CTO fine	0-255	CTO fine adjustment

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11	14	20	Fixed colors	0-7	Open
				8-15	Half color open 1
				16-23	Full color 1
				24-30	Half color 1-2
				31-38	Full color 2
				39-45	Half color 2-3
				46-53	Full color 3
				54-60	Half color 3-4
				61-68	Full color 4
				69-75	Half color 4-5
				76-83	Full color 5
				84-90	Half color 5-6
				91-98	Full color 6
				99-105	Half color 6-7
				106-113	Full color 7
				114-120	Half color 7-open
				121-128	Open white
129-192	CW color rotation fast-slow				
193-199	Rotation stop				
200-255	CCW color rotation slow-fast				
		21	Color wheel fine	0-255	Color wheel fine adjustment
12	15	22	Iris	0-255	Linear iris 0-100%
		23	Iris fine	0-255	Iris fine adjustment
13	16	24	Gobo wheel #1(fixed)	0-6	Open
				7-14	Gobo 1
				15-21	Gobo 2
				22-28	Gobo 3
				29-35	Gobo 4
				36-41	Gobo 5
				42-49	Gobo 6
				50-56	Gobo 7
				57-64	Animation(gobo 7)
				65-71	Gobo 1 shake
				72-79	Gobo 2 shake
				80-87	Gobo 3 shake
				88-95	Gobo 4 shake
				96-103	Gobo 5 shake
104-111	Gobo 6 shake				

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13	16	24	Gobo wheel #1 (fixed)	112-127	Gobo 7 shake
				128-181	CW gobo wheel 1 rotation
				182-191	Rotation stop
				192-234	CCW gobp wheel rotation slow-fast
			Note: use with channel 11	235	No function
				236	Macro: smooth
				238	Macro: Oraganic
				240	Macro: Metronome
				242	Macro: slow forward/fast reverse
				244	Macro: slow reverse/fast forward
				246	Macro:rabdom bounce
				248	Macro:interference
				250	Macro:random animation
				252	Macro:random gobo
255	Macro:random both				
14	17	25	Gobo#1 macro speed	0-255	Macro from fast-slow
		26	Gobo wheel 1 fine\	0-255	Gobo wheel fine adjustment
15	18	27	Gobo wheel #2 (rotating)	0-8	Open
				9-16	Gobo 1
				17-24	Gobo 2
				25-32	Gobo 3
				33-40	Gobo 4
				41-48	Gobo 5
				49-56	Gobo 6
				57-64	Gobo 7
				65-72	Gobo 1 shake
				73-80	Gobo 2 shake
				81-88	Gobo 3 shake
				89-96	Gobo 4 shake
				97-104	Gobo 5 shake
				105-112	Gobo 6 shake
				113-127	Gobo 7 shake
				128-189	CW rotating gobo cycle fast-slow
				190-193	Stop
194-255	CCW rotating gobo cycle slow-fast				

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16	19	28	Gobo#2	0-127	Insexing
			rotate/ index (coarse)	128-189	Rotate CW fast-slow
				190-193	Stop
				194-255	Rotate CCW slow-fast
		29	Gobo#2 index (fine)	0-255	Fine indexing
17	20	30	Framing 1:1	0-255	Shutter 1 position 1
		31	Framing 1:1 fine	0-255	Framing 1:1 fine adjustment
18	21	32	Framing 1:2	0-255	Shutter 1 position 2
		33	Framing 1:2 fine	0-255	Framing 1:2 fine adjustment
19	22	34	Framing 2:1	0-255	Shutter 2 position 1
		35	Framing 2:1 fine	0-255	Framing 2:1 fine adjustment
20	23	36	Framing 2:2	0-255	Shutter 2 position 2
		37	Framing 2:2 fine	0-255	Framing 2:2 fine adjustment
21	24	38	Framing 3:1	0-255	Shutter 3 position 1
		39	Framing 3:1 fine	0-255	Framing 3:1 fine adjustment
22	25	40	Framing 3:2	0-255	Shutter 3 position 2
		41	Framing 3:2 fine	0-255	Framing 3:2 fine adjustment
23	26	42	Framing 4:1	0-255	Shutter 4 position 1
		43	Framing 4:1 fine	0-255	Framing 4:1 fine adjustment
24	27	44	Framing 4:2	0-255	Shutter 4 position 2
		45	Framing 4:2 fine	0-255	Framing 4:2 fine adjustment

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25	28	46	Frame rotation	0-255	90-degree framing shutter rotation
		47	Frame rotation fine	0-255	Fine framing rotation
26	29	48	Static framing macro	0-4	No function
				5-9	Macro 01-1
				10-14	Macro 01-2
				15-19	Macro 01-3
				20-24	Macro 01-4
				25-29	Macro 02-1
				30-34	Macro 02-2
				35-39	Macro 03-1
				40-44	Macro 03-2
				45-49	Macro 04-1
				50-54	Macro 04-2
				55-59	Macro 05-1
				60-64	Macro 05-2
				65-69	Macro 05-3
				70-74	Macro 05-4
				75-79	Macro 06-1
				80-84	Macro 06-2
				85-89	Macro 07-1
				90-94	Macro 07-2
				95-99	Macro 08-1
				100-104	Macro 08-2
				105-109	Macro 09-1
				110-114	Macro 09-2
				115-119	Macro 09-3
				120-124	Macro 09-4
				125-129	Macro 10-1
				130-134	Macro 10-2
				135-139	Macro 10-3
140-144	Macro 10-4				
145-149	Macro 11-1				
150-154	Macro 11-2				
155-159	Macro 11-3				
160-164	Macro 11-4				
165-169	Macro 12-1				

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26	29	48	Static framing macro	170-174	Macro 12-2
				175-179	Macro 12-3
				180-184	Macro 12-4
				185-189	Macro 13-1
				190-194	Macro 13-2
				195-199	Macro 13-3
				200-204	Macro 13-4
				205-255	Reserved
27	30	49	Dynamic framing macro	0-9	No function
				10-19	Macro 01
				20-29	Macro 02
				30-39	Macro 03
				40-49	Macro 04
				50-59	Macro 05
				60-69	Macro 06
				70-79	Macro 07
				80-89	Macro 08
				90-99	Macro 09
				100-109	Macro 10
				110-119	Macro 11
				120-129	Macro 12
				130-139	Macro 13
				140-149	Macro 14
				150-159	Macro 15
160-169	Macro 16				
170-255	Reserved				
28	31	50	Speed	0-255	Speed control of dynamic framing macro
29	32	51	Rotating prism, prism/gobo macro	0-9	No function
				10-19	Macro 01
				20-29	Macro 02
				30-39	Macro 03
				40-49	Macro 04
				50-59	Macro 05
				60-69	Macro 06
				70-79	Macro 07
				80-89	Macro 08
				90-99	Macro 09
				100-109	Macro 10
				110-119	Macro 11

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29	32	51	Rotating prism, prism/gobo macro	120-129	Macro 12
				130-139	Macro 13
				140-149	Macro 14
				150-159	Macro 15
				160-169	Macro 16
				170-255	Reserved
30	33	52	Prism 1 in/out	0-6	Prism out
				7-255	Prism in
31	34	53	Prism 1 rotate	0-127	Static Positioning
				128-189	Rotate CW fast-slow
				190-193	Stop
				194-255	Rotate CCw slow-fast
		54	Prism 1 positioning fine	0-255	Prism 1 positioning fine adjustment
32	35	55	Prism 2 in/out	0-6	Prism out
				7-255	Prism in
33	36	56	Prism 2 rotate	0-127	Static positioning
				128-189	Rotate CW fast-slow
				190-193	Stop
				194-255	Rotate CCW slow-fast
		57	Prism 2 positioning fine Linear	0-255	Prism 2 positioning fine adjustment
34	37	58	frost in/out	0-255	Out-in 0-100%
35	38	59	Zoom	0-255	Narrow-wide
		60	Zoom fine	0-255	Zoom fine adjustment
36	39	61	Focus	0-255	Near-far
		62	Focus fine	0-255	Focus fine adjustment
37	40	63	Control	0-39	No function
				40-49	Pan/Tilt motor reset
				50-59	Head motors reset
				60-69	Reset all
				70-79	No function
				80-89	Set move-in-black active

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37	40	63	Control	90-99	Cancel move-in-black
				100-109	Set color change-in-black active
				110-119	Cancel gobo change-in-black
				120-129	Set gobo change -in-black active
				130-139	Cancel gobo change-in-black
				140-149	No function
				150-159	Internal program 1
				160-169	Internal program 2
			
				220-229	Internal program 8
				230-255	No function